

## Claims

1. Artificial grass system for forming a field of grass comprising artificial blades of grass distributed at a main surface and provided with liquid supply means for supplying a liquid to said main surface characterized in that said liquid supply means comprises a liquid release layer underneath said artificial blades of grass and in that said artificial blades of grass comprise at least one capillary channel extending from within said liquid release layer to said main surface.
2. Artificial grass system according to claim 1 characterized in that said liquid release layer comprises a liquid absorbing and releasing layer.
3. Artificial grass system according to claim 1 and 2 characterized in that said liquid release layer comprises at least one material taken from a group of felt, cotton and soil.
4. Artificial grass system according to any of the preceding claims characterized in that said artificial grass blades comprise the at least one capillary channel as at least one artificial nerve within an artificial leave.
5. Artificial grass system according to any of the preceding claims characterized in that said artificial grass blades extend along a tubular core which comprises the at least one capillary channel.
6. Artificial grass system according to claim 5 characterized in that said tubular core comprises a tube wall of silicon.
7. Artificial grass system according to claim 5 or 6 characterized in that said tubular core is filled at least in part with a liquid conductor.
8. Artificial grass system according to claim 7 characterized in that said liquid

-9-

conductor comprise a hydrophilic material, preferably taken from a group of cotton and sponge.

5 9. Artificial grass system according to any the preceding claims characterized in that said liquid release layer is provided on a buffer layer capable of at least temporarily storing said liquid.

10. Artificial grass system according to claim 9 characterized in that said buffer layer comprises rubber.

10 11. Artificial grass system according to any of the preceding claims characterized in that said artificial grass blades are incorporated in a support layer with one end projecting from said support layer to penetrate the liquid release layer and an opposite end projecting from said support layer at said main surface.

12. Artificial grass system according to claim 11 characterized in that said artificial grass blades are interweaved in said support layer.

15 13. Artificial grass mat comprising the artificial grass system according to one or more of the preceding claims.

14. Field of grass comprising at least in part the artificial grass system according to one or more of claims 1-13.

20 15. Method of improving a field of grass by inserting artificial grass blades of the artificial grass system according to one or more of claims 1-13 within said field of grass.